

Table 23. Event frequencies for LNG DOT-113 mainline movement release scenarios along the example route, with train speeds greater than 25 mph and up to 50 mph.

Release rate (lb/s)	Release Frequency (/year)	Release rate (lb/s)	Release Frequency (/year)	Release rate (lb/s)	Release Frequency (/year)
1 DOT-113 Involved		6 DOT-113s Involved		9 DOT-113s Involved	
0	6.03×10 ⁻⁵	0	4.99×10 ⁻⁶	0	2.93×10 ⁻⁶
3.60	1.01×10 ⁻⁶	5.4	5.23×10 ⁻⁷	7.20	4.72×10 ⁻⁷
58.6	1.64×10 ⁻⁶	16.2	4.76×10 ⁻¹⁰	18.0	2.96×10 ⁻¹¹
CR 1 DOT-113	1.89×10 ⁻⁷	67.6	8.86×10 ⁻⁷	67.6	8.20×10 ⁻⁷
2 DOT-113s Involved		155	6.14×10 ⁻⁸	160	9.32×10 ⁻⁸
0	9.31×10 ⁻⁶	266	4.30×10 ⁻¹¹	207	2.03×10 ⁻¹⁰
3.60	3.12×10 ⁻⁷	CR 1 DOT-113	1.16×10 ⁻⁷	325	2.36×10 ⁻¹¹
7.20	2.61×10 ⁻⁹	CR 2 DOT-113	8.75×10 ⁻¹⁰	CR 1 DOT-113	1.17×10 ⁻⁷
60.4	5.16×10 ⁻⁷	CR 3 DOT-113	3.52×10 ⁻¹²	CR 2 DOT-113	1.40×10 ⁻⁹
117	6.90×10 ⁻⁹	7 DOT-113s Involved		CR 3 DOT-113	9.88×10 ⁻¹²
CR 1 DOT-113	6.10×10 ⁻⁸	0	5.05×10 ⁻⁶	10 DOT-113s Involved	
CR 2 DOT-113	9.18×10 ⁻¹¹	7.20	6.24×10 ⁻⁷	0	4.15×10 ⁻⁶
3 DOT-113s Involved		19.8	1.41×10 ⁻¹¹	7.20	7.52×10 ⁻⁷
0	1.25×10 ⁻⁵	64.0	1.06×10 ⁻⁶	18.0	6.98×10 ⁻¹¹
5.40	6.40×10 ⁻⁷	76.6	1.15×10 ⁻¹²	65.8	1.31×10 ⁻⁶
10.8	5.89×10 ⁻¹¹	151	8.97×10 ⁻⁸	134	1.58×10 ⁻⁷
62.2	1.06×10 ⁻⁶	262	1.04×10 ⁻¹⁰	221.2857143	1.18×10 ⁻⁸
148	2.86×10 ⁻⁸	CR 1 DOT-113	1.44×10 ⁻⁷	329.8333333	1.74×10 ⁻¹¹
CR 1 DOT-113	1.29×10 ⁻⁷	CR 2 DOT-113	1.30×10 ⁻⁹	CR 1 DOT-113	1.92×10 ⁻⁷
CR 2 DOT-113	3.86×10 ⁻¹⁰	CR 3 DOT-113	6.52×10 ⁻¹²	CR 2 DOT-113	2.60×10 ⁻⁹
4 DOT-113s Involved		8 DOT-113s Involved		CR 3 DOT-113	2.09×10 ⁻¹¹
0	6.03×10 ⁻⁶	0	3.99×10 ⁻⁶	11 DOT-113s Involved	
5.40	4.14×10 ⁻⁷	7.20	5.68×10 ⁻⁷	0	2.03×10 ⁻⁴
12.6	1.14×10 ⁻¹⁰	21.6	2.23×10 ⁻¹¹	7.20	4.07×10 ⁻⁵
64.0	6.90×10 ⁻⁷	71.2	9.79×10 ⁻⁷	18.0	5.42×10 ⁻⁹
178	2.82×10 ⁻⁸	130	9.18×10 ⁻⁸	67.6	7.17×10 ⁻⁵
CR 1 DOT-113	8.63×10 ⁻⁸	218	5.07×10 ⁻⁹	134	9.61×10 ⁻⁶
CR 2 DOT-113	3.89×10 ⁻¹⁰	293	3.35×10 ⁻¹²	221	8.14×10 ⁻⁷
CR 3 DOT-113	7.83×10 ⁻¹³	CR 1 DOT-113	1.36×10 ⁻⁷	330	1.59×10 ⁻⁹
5 DOT-113s Involved		CR 2 DOT-113	1.43×10 ⁻⁹	CR 1 DOT-113	1.08×10 ⁻⁵
0	5.97×10 ⁻⁶	CR 3 DOT-113	8.60×10 ⁻¹²	CR 2 DOT-113	1.63×10 ⁻⁷
5.40	5.17×10 ⁻⁷			CR 3 DOT-113	1.47×10 ⁻⁹
14.4	2.84×10 ⁻¹⁰				
65.8	8.68×10 ⁻⁷				
180	4.78×10 ⁻⁸				
CR 1 DOT-113	1.11×10 ⁻⁷				
CR 2 DOT-113	6.71×10 ⁻¹⁰				
CR 3 DOT-113	2.01×10 ⁻¹²				